



PATENT  
Attorney Docket No.: ICE-016  
(9946/23)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Grundlingh  
SERIAL NO.: 10/615,468 GROUP NO.: 2817  
FILED: July 8, 2003 EXAMINER; Not yet assigned  
TITLE: SWITCHED-MODE POWER AMPLIFIER USING LUMPED  
ELEMENT IMPEDANCE INVERTER FOR PARALLEL  
COMBINING

**CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8**

I hereby certify that this correspondence, and any documents referred to as enclosed herein, are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 9<sup>th</sup> day of January, 2004.

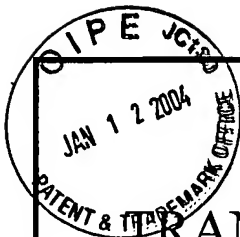
Nicole Deane

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith are:

- 1.) Transmittal Form (1 pg.);
- 2.) Executed Power of Attorney by Assignee of Entire Interest Revocation of Prior Powers and New Power of Attorney (3 pgs.);
- 3.) Copy of Executed Assignment (2 pgs.); and
- 4.) Return Receipt Postcard.



# TRANSMITTAL FORM

Application Serial Number	10/615,468
Filing Date	July 8, 2003
First Named Inventor	Grundlingh
Group Art Unit	2817
Examiner Name	Not yet assigned
Attorney Docket No.	ICE-016
Patent No.	Not applicable
Issue Date	Not applicable

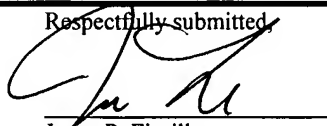
## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application <input type="checkbox"/> Formal Drawing(s) <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <input checked="" type="checkbox"/> Power of Attorney (Revocation of Prior Powers) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> CD(s) for large table or computer program <input type="checkbox"/> Amendment After Allowance <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <input type="checkbox"/> Appeal Brief (in triplicate) <input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 <input checked="" type="checkbox"/> Additional Enclosure (please identify below) <ul style="list-style-type: none"><li>• Copy of Executed Assignment (2 pgs.)</li></ul>
<input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____]		
<input type="checkbox"/> Petition for Extension of Time		
<input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Form PTO-1449 <input type="checkbox"/> Copies of IDS Citations		
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above		

## CORRESPONDENCE ADDRESS

Direct all correspondence to: Patent Administrator  
Testa, Hurwitz & Thibault, LLP  
High Street Tower  
125 High Street  
Boston, MA 02110  
Tel. No.: (617) 248-7000  
Fax No.: (617) 248-7100

## SIGNATURE BLOCK

Respectfully submitted,  
  
Jason P. Fiorillo  
Attorney for Applicant  
Testa, Hurwitz & Thibault, LLP  
High Street Tower  
125 High Street  
Boston, MA 02110  
Date: January 9, 2004  
Reg. No.: 52,892  
Tel. No.: (617) 310-8471  
Fax No.: (617) 248-7100



PATENT  
Attorney Docket No. ICE-016

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Grundlingh  
SERIAL NO.: 10/615,468 GROUP NO.: 2817  
FILED: 07/08/2003 EXAMINER: Not yet assigned  
TITLE: SWITCHED-MODE POWER AMPLIFIER USING LUMPED  
ELEMENT IMPEDANCE INVERTER FOR PARALLEL  
COMBINING

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST**  
**REVOCATION OF PRIOR POWERS AND NEW POWER OF ATTORNEY**

Sir:

As assignee of record of the entire right, title and interest of the above-identified patent application, all powers of attorney previously given are hereby revoked, and the following attorneys and/or agents are hereby appointed to prosecute and transact all business in the U.S. Patent and Trademark Office connected therewith.

Andrew F. Abramson	Reg. No. 52,538
Steven M. Bauer	Reg. No. 31,481
Mark L. Beloborodov	Reg. No. 50,773
Robert S. Blasi	Reg. No. 50,389
Michael H. Brodowski	Reg. No. 41,640
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Natasha C. Us	Reg. No. 44,381
Christine C. Vito	Reg. No. 39,061
Daniel A. Wilson	Reg. No. 45,508
Gerald E. Worth	Reg. No. 45,238

Assignee also hereby grants additional Powers of Attorney to the attorneys and/or agents named above to file and prosecute foreign national patent applications in any and all countries of the world, a regional patent application under the European Patent Convention and/or an international application under the Patent Cooperation Treaty based upon the above-identified application, including a power to meet all designated office requirements for designated states.

All future correspondence should be sent to:

Patent Administrator  
Testa, Hurwitz & Thibault, LLP  
High Street Tower  
125 High Street  
Boston, MA 02110

**PLEASE ASSIGN PTO CUSTOMER NUMBER 021323 TO THIS APPLICATION**

The assignee of record of the entire right, title and interest of the above-identified application is:

IceFyre Semiconductor Corporation  
300 - 411 Leggett Drive  
Kanata, Ontario  
Canada K2K 3C9

- ☐ Recorded in PTO on  
Reel No.:  
Frame No.:  
☒ Submitted herewith

Respectfully submitted,

Dated: JAN 5, 2004

  
\_\_\_\_\_  
Jung-Yee

Chief Technology Officer  
IceFyre Semiconductor Corporation  
300 - 411 Leggett Drive  
Kanata, Ontario  
Canada K2K 3C9

ASSIGNMENT

THIS ASSIGNMENT, made by Johan M. Grundlingh (hereinafter referred to as the assignor) whose post office address is, 5313 Carp Road, R.R. #2, Kinburn, Ontario, K0A 2H0, Canada;

WHEREAS, the said assignor is the inventor of the subject matter of the invention entitled **SWITCHED-MODE POWER AMPLIFIER USING LUMPED ELEMENT IMPEDANCE INVERTER FOR PARALLEL COMBINING** and holds the right to file patent application(s) therefor and to obtain patent(s) thereon, which invention is the subject of a U.S. patent application the declaration for which has been executed by the assignor on the same date of his execution of this Assignment;

WHEREAS, **IceFyre Semiconductor Corporation**, a corporation duly organized under and pursuant to the laws of Canada, having its principal place of business at Suite 300, 411 Legget Drive, Kanata, Ontario, K2P 1L5, Canada, hereinafter referred to as the assignee, employed said assignor at the time of the making of said invention, which was made during the course of the assignor's fulfillment of his duties of employment, and is entitled to all benefits and rights of said assignor in respect of said invention. By this Assignment the assignor is desirous of establishing formal confirmation and acquisition of the assignor's entire right, title and interest in and to said invention, said patent applications and the patents to issue therefrom and all other patent applications which may have been or may be filed in any country;

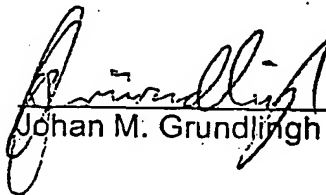
NOW THEREFORE, in consideration of said employment including monetary amounts paid in respect thereof, the receipt of which is hereby acknowledged, the said assignor has sold, assigned, transferred and set over, and by these presents sells, assigns, transfers and sets over unto the assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned continuation-in-part invention and application for Patent and any and all corresponding applications and patents in the United States of America, Canada and any and all other countries, which have been or may be filed and/or granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said applications, reissues and extensions of Patent, and all rights under any International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the said assignee, for itself and its successors, legal representatives and assigns, to the full end of the term or terms for which Patent(s) may be or may have been granted.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives and assigns, that, at the time of execution and deliver of these presents, the said assignor is an inventor of the said invention;

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives and assigns that the said assignor will, whenever counsel for the said assignee, or the counsel for its successors, legal representatives and assigns shall advise that any proceeding in connection with the said invention, or said applications for Patent(s) or any proceeding in connection with Patent(s) for said invention in any country, including interference or conflict proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Patent(s) or any reissue or extension of any Patent(s) to be obtained thereon, is lawful and desirable, sign any and all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defence of Patent(s) or for the said invention, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of the said assignee, its successors, legal representatives and assigns.

The undersigned assignor, and the assignee hereto, hereby authorize the firm of **Cassan Maclean** whose full office address is 401-80 Aberdeen Street, Ottawa, Ontario, Canada K1S 5R5, to correct clerical errors in this Assignment or to insert any further identification or other information necessary or desirable to make this Assignment suitable for recordal in a domestic or foreign Office.

SIGNED at Ottawa, Ontario, this 4 day of July, 2003.

  
Johan M. Grundlingh

#### STATEMENT OF WITNESS

I, Jay Lee, whose full post office address is 3 Spring Court, K1S 5R5

was personally present and did see Johan M. Grundlingh, who is known to me, execute the above assignment.

  
(signature of witness)